

10/693,161 8/23/05

NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 10:20:53 ON 23 AUG 2005

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 10:21:03 ON 23 AUG 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 22 AUG 2005 HIGHEST RN 861291-85-2

DICTIONARY FILE UPDATES: 22 AUG 2005 HIGHEST RN 861291-85-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

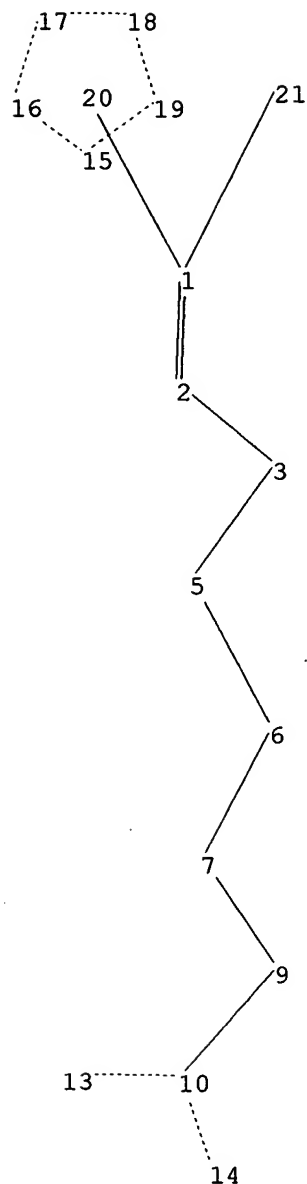
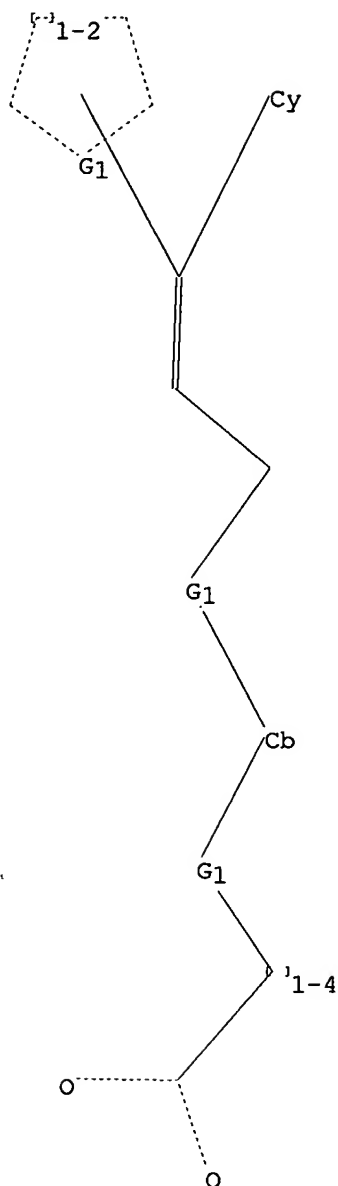
\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10693161\10693161k.str



$G_1 = O, S, N$   
1 a complete  
search

chain nodes :  
 1 2 3 5 6 7 9 10 13 14 21  
 ring nodes :  
 15 16 17 18 19  
 chain bonds :  
 1-2 1-21 2-3 3-5 5-6 6-7 7-9 9-10 10-13 10-14  
 ring bonds :  
 15-16 15-19 16-17 17-18 18-19  
 exact/norm bonds :  
 1-2 1-21 2-3 3-5 5-6 6-7 7-9 9-10 10-13 10-14 15-16 15-19 16-17 17-18  
 18-19

G1:O,S,N

Match level :  
 1:CLASS 2:CLASS 3:CLASS 5:CLASS 6:Atom 7:CLASS 9:CLASS 10:CLASS 13:CLASS  
 14:CLASS 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:CLASS 21:Atom

L1           STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1                   STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

=> s L1

SAMPLE SEARCH INITIATED 10:21:25 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 113440 TO ITERATE

1.8% PROCESSED       2000 ITERATIONS                   0 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:   ONLINE   \*\*INCOMPLETE\*\*  
                          BATCH    \*\*INCOMPLETE\*\*

PROJECTED ITERATIONS:   ~~2248868~~ TO ~~2288732~~

PROJECTED ANSWERS:       0 TO       0

L2                   0 SEA SSS SAM L1

=> s L1 full

FULL SEARCH INITIATED 10:21:29 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 271842 TO ITERATE

28.1% PROCESSED     638101 ITERATIONS                   16 ANSWERS

39.3% PROCESSED     891825 ITERATIONS                   32 ANSWERS

43.2% PROCESSED     982181 ITERATIONS                   32 ANSWERS

44.0% PROCESSED    1000000 ITERATIONS                   32 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.54

FULL FILE PROJECTIONS:   ONLINE   \*\*INCOMPLETE\*\*  
                          BATCH    \*\*INCOMPLETE\*\*

PROJECTED ITERATIONS:   ~~2271842~~ TO ~~2271842~~

PROJECTED ANSWERS:       47 TO       97

L3                   32 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

161.76

161.97

FILE 'CAPLUS' ENTERED AT 10:22:32 ON 23 AUG 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available

for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 23 Aug 2005 VOL 143 ISS 9  
FILE LAST UPDATED: 22 Aug 2005 (20050822/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s L3

L4                    2 L3

=> d ibib abs 1-2



10/693,161 8/23/05

NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 10:25:44 ON 23 AUG 2005

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 10:25:53 ON 23 AUG 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 22 AUG 2005 HIGHEST RN 861291-85-2

DICTIONARY FILE UPDATES: 22 AUG 2005 HIGHEST RN 861291-85-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10693161\10693161m.str



L1        STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1                STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

=> s L1

SAMPLE SEARCH INITIATED 10:26:15 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 46304 TO ITERATE

4.3% PROCESSED        2000 ITERATIONS                                0 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:    ONLINE    \*\*COMPLETE\*\*  
                                      BATCH    \*\*COMPLETE\*\*

PROJECTED ITERATIONS:        913241 TO    938919

PROJECTED ANSWERS:                0 TO        0

L2                0 SEA SSS SAM L1

=> s L1 full

FULL SEARCH INITIATED 10:26:22 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 929537 TO ITERATE

99.3% PROCESSED        922710 ITERATIONS                                32 ANSWERS

100.0% PROCESSED        929537 ITERATIONS                                32 ANSWERS  
SEARCH TIME: 00.00.18

L3                32 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
161.76	161.97

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 10:26:49 ON 23 AUG 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 23 Aug 2005 VOL 143 ISS 9

FILE LAST UPDATED: 22 Aug 2005 (20050822/ED)



New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s L3

L4                    2 L3

=> d ibib abs 1-2

ACCESSION NUMBER: 2004:370892 CAPLUS

DOCUMENT NUMBER: 140:374984

TITLE: Preparation of [(diaryllallyl)sulfanyl]phenoxy]acetic acids and esters as PPAR activators for treatment of diabetes and related conditions

INVENTOR(S): Jeppesen, Lone; Mogensen, John Patrick; Pettersson, Ingrid; Sauerberg, Per; Pihera, Pavel; Havranek, Miroslav

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXX02

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004037776	A2	20040506	WO 2003-DK722	20031027
WO 2004037776	A3	20040610		
V: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2005070583	A1	20050331	US 2003-693161	20031024
CA 2503280	AA	20040506	CA 2003-2503280	20031027
EP 1558572	A2	20050803	EP 2003-757741	20031027
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRIORITY APPL. INFO.:				
DK 2002-1631 A 20021028				
DK 2003-793 A 20030526				
US 2002-423647P P 20021104				
WO 2003-DK722 W 20031027				
OTHER SOURCE(S): MARPAT 140:374984				
GI				

ACCESSION NUMBER: 2004:370891 CAPLUS

DOCUMENT NUMBER: 140:391127

TITLE: Preparation of biphenylallylsulfanylphenoxy]acetates and related compounds for treating peroxisome proliferator activated receptor (PPAR) mediated diseases

INVENTOR(S): Jeppesen, Lone; Pettersson, Ingrid; Sauerberg, Per; Pihera, Pavel; Havranek, Miroslav

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 69 pp.

CODEN: PIXX02

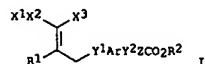
DOCUMENT TYPE: Patent

LANGUAGE: English

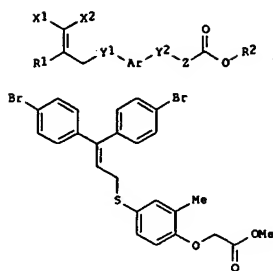
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004037775	A1	20040506	WO 2003-DK723	20031027
V: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2005080115	A1	20050414	US 2003-692561	20031024
CA 2503276	AA	20040506	CA 2003-2503276	20031027
EP 1558571	A1	20050803	EP 2003-757742	20031027
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRIORITY APPL. INFO.:				
DK 2002-1629 A 20021028				
US 2002-423644P P 20021104				
WO 2003-DK723 W 20031027				
OTHER SOURCE(S): MARPAT 140:391127				
GI				



AB Title compds. [I: X<sup>1</sup>, X<sup>3</sup> = (substituted) aryl, heteroaryl; X<sup>2</sup>, Ar = (substituted) aryl, arylene; Y<sup>1</sup>, Y<sup>2</sup> = O, S; Z = (CH<sub>2</sub>)<sub>n</sub>; n = 1-3; R<sup>1</sup> = H, halo, (substituted) alkyl, cycloalkyl, alkenyl, alkynyl, aralkyl, heteroaralkyl, alkoxy, cycloalkoxy, alkylthio, etc.; R<sup>2</sup> = H, alkyl, cycloalkyl, alkenyl, alkynyl, aryl, etc.], were prepared for treatment of PPAR mediated diseases (no data). Thus, [4-{3,3-bis-(4-bromophenyl)allylsulfanyl}-2-methylphenoxy]acetic acid (preparation given), PhB(OH)2, K<sub>2</sub>CO<sub>3</sub>, Pd2(dba)<sub>3</sub>, and Pd[P(tBu)<sub>3</sub>]<sub>2</sub> were stirred in THF to give [4-{3-biphenyl-4-yl-3-(4-bromophenyl)allylsulfanyl}phenoxy]acetic acid.



AB Title compds. I [wherein X<sup>1</sup> and X<sup>2</sup> = independently (un)substituted (hetero)aryl; Ar = (un)substituted arylene; Y<sup>1</sup> and Y<sup>2</sup> = independently O or S; Z = (CH<sub>2</sub>)<sub>n</sub>; n = 1-3; R<sup>1</sup> = H, halo, or optionally halo-substituted (cyclo)alkyl, alkenyl, alkynyl, (hetero)aralkyl, (cyclo)alkoxy, aryloxy, (hetero)aralkoxy, (cyclo)alkylthio, or arylthio; R<sup>2</sup> = H, (cyclo)alkyl, alkenyl, alkynyl, alkenynyl, or aryl; or pharmaceutically acceptable salts, solvates, tautomeric forms, stereoisomers, mixts. of stereoisomers, or polymorphs thereof] were prepared as peroxisome proliferator activated receptors (PPAR) activators (no data). Thus, I and their pharmaceutical compns. are useful for the treatment and/or prevention of conditions mediated by PPAR, particularly subtype PPAR $\delta$ , such as diabetes, impaired glucose tolerance, insulin resistance, obesity, dyslipidemia, syndrome X, cardiovascular disease, and hypercholesterolemia (no data). For example, coupling of 4,4'-dibromobenzophenone with tri-Et phosphonoacetate in toluene and THF using NaH provided Et 3,3-bis(4-bromophenyl)acrylate (73%). Reduction of the ester to the alc. (76a) using DIBAL-H in THF and toluene, followed by reaction with (4-mercapto-2-methylphenoxy)acetic acid Me ester in the presence of ADPP and tributylphosphine in THF gave II (88%).

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

5.75

167.72

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-1.46

-1.46

STN INTERNATIONAL LOGOFF AT 10:27:15 ON 23 AUG 2005

10/693,161 8/23/05

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 10:28:57 ON 23 AUG 2005

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 10:29:05 ON 23 AUG 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 22 AUG 2005 HIGHEST RN 861291-85-2

DICTIONARY FILE UPDATES: 22 AUG 2005 HIGHEST RN 861291-85-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

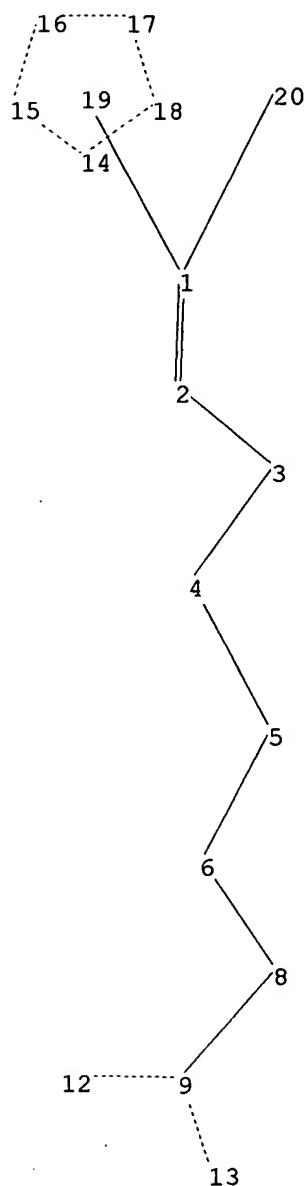
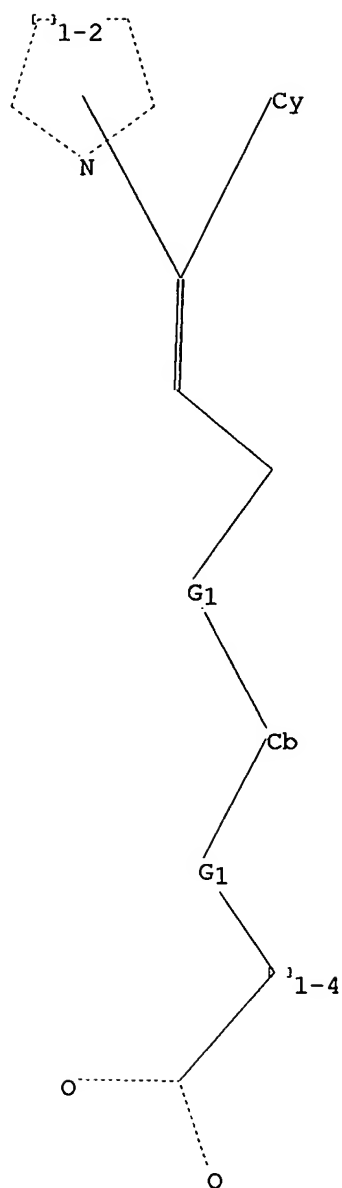
\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10693161\10693161n.str



```

chain nodes :
1 2 3 4 5 6 8 9 12 13 20
ring nodes :
14 15 16 17 18
chain bonds :
1-2 1-20 2-3 3-4 4-5 5-6 6-8 8-9 9-12 9-13
ring bonds :
14-15 14-18 15-16 16-17 17-18
exact/norm bonds :
1-20 3-4 4-5 5-6 6-8 9-12 9-13 14-15 14-18 15-16 16-17 17-18
exact bonds :
1-2 2-3 8-9

```

G1:O,S

```

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:Atom 6:CLASS 8:CLASS 9:CLASS 12:CLASS
13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:Atom

```

STN INTERNATIONAL LOGOFF AT 10:30:49 ON 23 AUG 2005